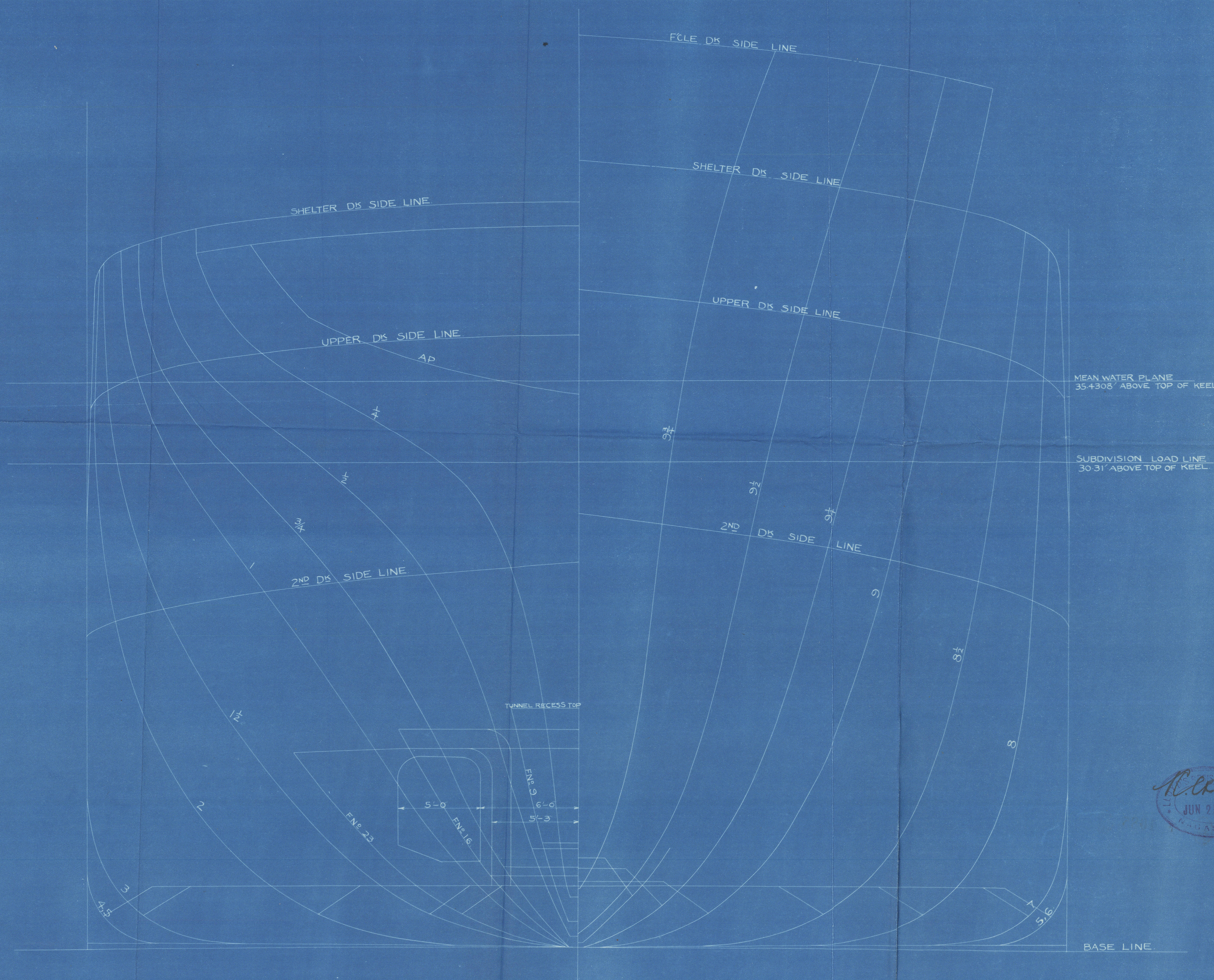


# Nº 342

## SUBDIVISION CALCULATION

BODY PLAN  
SCALE  $\frac{1}{4}'' = 1 \text{ FT}$

FOR "MIXED TYPE"



MEAN WATER PLANE COEFFICIENTS:—  
MEAN WATER PLANE ABOVE TOP OF KEEL \*D+F\*  $\frac{1}{2} F$   
40.5517 -  $\frac{1}{2} \times 10.24 \times 17 = 35.4308$

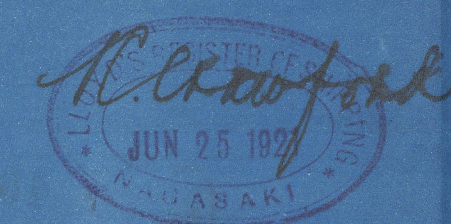
STAN	OFFSETS	S.M	PRODUCTS	LEV	MOMENTS	LEV	MOMENT OF I
A.P	4.85	25	1.21	5	6.05	5	30.25
$\frac{1}{4}$	16.80	1	16.80	4.75	79.80	4.75	379.05
$\frac{1}{2}$	22.05	5	11.03	4.5	49.64	4.5	223.38
$\frac{3}{4}$	25.00	1	25.00	4.25	106.25	4.25	451.56
1	26.85	.75	20.14	4	80.56	4	322.24
$\frac{1}{2}$	28.74	2	57.48	3.5	201.18	3.5	704.13
2	29.46	15	44.19	3	132.57	3	397.71
3	29.70	4	118.80	2	237.60	2	475.20
4	29.70	2	59.40	1	59.40	1	59.40
5	29.70	4	118.80	0	0	0	0
6	29.70	2	59.40	1	59.40	1	59.40
7	29.70	4	118.80	2	237.60	2	475.20
8	28.43	15	42.65	3	127.95	3	383.85
$8\frac{1}{2}$	26.25	2	52.50	3.5	183.75	3.5	643.13
9	21.55	75	16.16	4	64.64	4	258.56
$9\frac{1}{2}$	17.80	1	17.80	4.25	75.65	4.25	321.51
$9\frac{1}{2}$	12.75	.5	6.38	4.5	28.71	4.5	129.20
$9\frac{1}{2}$	6.50	1	6.50	4.75	30.88	4.75	146.68
F.P	0	.25	0	5	0	5	0

793.04 - 91.91 = 805.58  
x 3 = 2416.74  
+ 44.78 = 2461.52  
x 45.95 = 113019.24  
6.63840 = 351,476,342 ----- I cph

CENTRE OF FLOTATION ABAFT A.A. = 8.37  
# STATION APART  
\* AREA MULTIPLIER =  $\frac{1}{3} \times \text{STATION APART} = \frac{1}{3} \times 45.95 = 15.3167$   
x: MOMENT OF INERTIA MULTIPLIER  
=  $\frac{1}{3} \times (\text{STATION APART})^3 = \frac{1}{3} \times 45.95^3 = 134,037.88$

† CORRECTION FOR I ABOUT C. OF FLOTATION  
=  $d^2 \times A = 24,293.46 \times 8.37^2 = 1,701,924$   
COEFFICIENTS:—

$L \times B = 459.5 \times 60 = 27,570$   
 $L^3 \times B = 459.5^3 \times 60 = 5,821,136,693$   
MEAN WATER PLANE AREA COEFFICIENT OR  $\{a_1\}$   
=  $A / (L \times B) = 24,293.46 / 27,570 = 0.8812$   
MEAN WATER PLANE MOMENT OF INERTIA COEFFICIENT OR  $\{a_2\}$   
=  $I / (L^3 \times B) = 351,476,342 / 5,821,136,693 = 0.0604$



K. J. J. J. J.  
20.6.1921



SHEET NO. 4.

S. No. 342.

BODY PLAN & MEAN  
WATER PLANE COEF.

M.D.F. NO. 801 B

RETAIN

RETAIN



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